

Title (en)  
WRENCH WITH SPLIT RING

Title (de)  
SCHRAUBENSCHLÜSSEL MIT SPALTRING

Title (fr)  
CLE A BAGUE FENDUE

Publication  
**EP 1539428 B1 20090121 (EN)**

Application  
**EP 03784281 A 20030808**

Priority  
• GB 0303484 W 20030808  
• GB 0218339 A 20020808

Abstract (en)  
[origin: US2005247168A1] A wrench or one way drive has a flexible head ( 2 ) with a split aperture ( 20 ) for loosely engaging a separate drive such as a socket or the head of a fastener ( 31 ) (a nut, bolt, screw or the like). Cam means, preferably pins ( 11,11 a), are located on a handle ( 3 ) and engage the head ( 2 ) preferably through slots ( 21,22 ) in the head. The slots diverge outwardly so that as the handle is moved relative to the head the split aperture ( 20 ) closes and the flexible head ( 2 ) increasingly clamps a drive socket, for example the more and more torque is applied to the handle.

IPC 8 full level  
**B25B 13/04** (2006.01); **B25B 13/00** (2006.01); **B25B 13/10** (2006.01); **B25B 13/32** (2006.01); **B25B 13/46** (2006.01)

CPC (source: EP US)  
**B25B 13/04** (2013.01 - EP US); **B25B 13/32** (2013.01 - EP US); **B25B 13/46** (2013.01 - EP US); **B25B 13/56** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2005247168 A1 20051110; US 7418890 B2 20080902**; AT E421409 T1 20090215; AU 2003255775 A1 20040225;  
DE 60325975 D1 20090312; EP 1539428 A1 20050615; EP 1539428 B1 20090121; ES 2321506 T3 20090608; GB 0218339 D0 20020918;  
GB 0318697 D0 20030910; GB 2391504 A 20040211; WO 2004014612 A1 20040219

DOCDB simple family (application)  
**US 52269305 A 20050127**; AT 03784281 T 20030808; AU 2003255775 A 20030808; DE 60325975 T 20030808; EP 03784281 A 20030808;  
ES 03784281 T 20030808; GB 0218339 A 20020808; GB 0303484 W 20030808; GB 0318697 A 20030808